

20.FEB.2001 16:38

27-MAR 2001

Attorney Docket No.: P-1649-US

09/674530

**DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION**

I, a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below under my name.

I believe that I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

**METHODS AND APPARATUS FOR TIMING RECOVERY OF VESTIGIAL  
SIDE BAND (VSB) MODULATED SIGNALS**

the Specification of which



is attached hereto

was filed on May 4, 1999

as United States Application Number or PCT International

Application No. PCT/IL99/00234

and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified Specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any provisional application filed in the United States in accordance with 35 U.S.C. §1.119(e), or any application for patent that has been converted to a Provisional Application within one (1) year of its filing date, or any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

**PRIOR FILED APPLICATION(S)**

<u>APPLICATION NUMBER</u>	<u>COUNTRY</u>	<u>(DAY/MONTH/YEAR FILED)</u>	<u>PRIORITY CLAIMED</u>
60/084,063	US	4-May-98	YES
PCT/IL99/00234	PCT	4-May-99	YES

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application listed below, and, insofar as the subject matter of each of the claims of this application is not disclosed in any prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a), which occurred

20. FEB. 2001 16:39

Attorney Docket No.: P-1649-US

between the filing date of the prior application and the national or PCT international filing date of this application:

APPLICATION  
NO.

60/084,063  
PCT/IL99/00234

FILING DATE  
(DAY/MONTH/YEAR)

4-May-98  
4-May-99

STATUS - PATENTED,  
PENDING, ABANDONED  
Expired

I hereby appoint as my attorney(s) and agent(s) Heidi M. Brun (Agent, Registration No. 35,104), or Jerome R. Smith, Jr. (Attorney, Registration No. 35,684), or Daniel J. Swirsky (Agent, Registration No. 45, 148) or Mark S. Cohen (Attorney, Registration No. 42, 425) or Rochel L. Abboudi (Agent, Registration No. 44,490) or Suzanne Erez (Agent, Registration No. 46,688) said attorney(s) and agent(s) with full power of substitution and revocation to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Please address all correspondence regarding this application to:

EITAN, PEARL, LATZER, & COHEN-ZEDEK  
ONE CRYSTAL PARK, SUITE 210  
2011 CRYSTAL DRIVE  
ARLINGTON, VA 22202-3709

Direct all telephone calls to (703) 486-0600 and all facsimiles at (703) 486-0800.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF INVENTOR: MELAMED, Oded

FULL RESIDENCE ADDRESS: 59 Tarshish Street, Shoham 73142, Israel

COUNTRY OF CITIZENSHIP: Israeli

FULL POST OFFICE ADDRESS: same

SIGNATURE OF INVENTOR

Oded Melamed

DATE

28/2/01

20.FEB.2001 16:39

Attorney Docket No.: P-1649-US

20 FULL NAME OF INVENTOR: SOMMER, NaftaliFULL RESIDENCE ADDRESS: 3 Heletz Street, Rishon Lezion 75222, IsraelCOUNTRY OF CITIZENSHIP: IsraeliFULL POST OFFICE ADDRESS: sameSIGNATURE OF INVENTOR Naftali Sommer 14XDATE 28/2/0130 FULL NAME OF INVENTOR: BITRAN, YigalFULL RESIDENCE ADDRESS: 26 Alterman Street, Tel Aviv 69415, IsraelCOUNTRY OF CITIZENSHIP: IsraeliFULL POST OFFICE ADDRESS: same 14XSIGNATURE OF INVENTOR [Signature]DATE 28/2/0140 FULL NAME OF INVENTOR: SHALVI, OfirFULL RESIDENCE ADDRESS: 19 Tabenkin Street, Herzlia 46425, IsraelCOUNTRY OF CITIZENSHIP: IsraeliFULL POST OFFICE ADDRESS: same 14XSIGNATURE OF INVENTOR [Signature]DATE 1/3/2001

## ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt of which is hereby acknowledged, **LIBIT SIGNAL PROCESSING LTD.**, now renamed as **TEXAS INSTRUMENTS (ISRAEL) CABLE BROADBAND COMMUNICATIONS LTD.**, P.O. Box 12670, Herzelia 46766, Israel (hereinafter "ASSIGNOR"), hereby sells, transfers and assigns to **TEXAS INSTRUMENTS INCORPORATED**, a corporation organized and existing under the laws of the State of Delaware, having an office located at 7839 Churchill Way, MS 3999, Dallas, Texas 75251, and its successors and assigns (hereafter "ASSIGNEE"), the entire right, title and interest of ASSIGNOR in and to the invention described in:

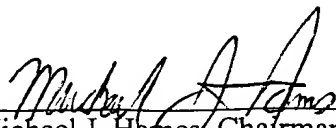
**U.S. Patent Application Serial No. 09/674,550, filed November 2, 2000, entitled "Method and Apparatus for Timing Recovery of Vestigial Sideband (VSB) Modulated Signals",**

and in and to said application, patent and any and all other patents which may be granted therefor, and all continuations, continuations-in-part, divisions, reissues, reexaminations, renewals, substitutions, and extensions thereof, and in and to any and all existing or hereafter accruing causes of action against third parties resulting from infringement of the same, and in and to the right to recover damages (including increased damages and attorney's fees) from third parties for any said infringement. ASSIGNOR hereby requests the Commissioner of Patents and Trademarks to issue all patents for said invention to said **TEXAS INSTRUMENTS INCORPORATED**, as ASSIGNEE of ASSIGNOR'S entire right, title and interest.

ASSIGNOR also hereby sells, transfers and assigns to **TEXAS INSTRUMENTS INCORPORATED**, its successors and assigns, any and all corresponding right, title and interest of ASSIGNOR in and to said invention, applications and patents in all countries other than the United States, including but not limited to any and all applications and patents corresponding thereto or derived therefrom in all countries of the world, including the right to claim priority therefrom, and to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agrees to execute any and all patent applications, assignments, affidavits and any other papers in connection therewith necessary to perfect such patent rights.

ASSIGNOR hereby covenants that ASSIGNOR has the right to make this assignment and that no other assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this agreement.

**LIBIT SIGNAL PROCESSING LTD.**, now renamed as  
**TEXAS INSTRUMENTS (ISRAEL) CABLE**  
**BROADBAND COMMUNICATIONS LTD.**

  
By: Michael J. Hames, Chairman (Officer)  
Dated: March 6, 2001